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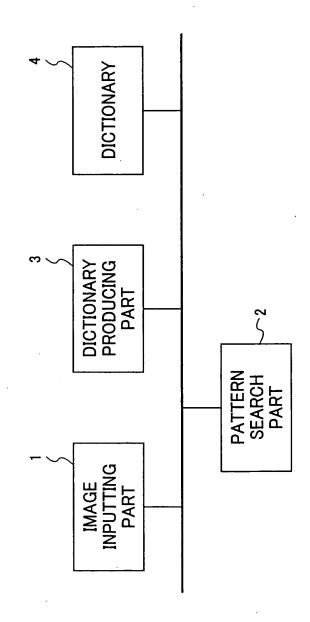
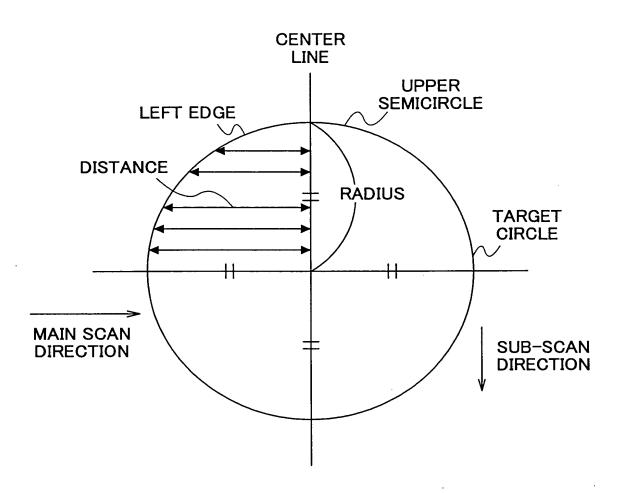


FIG.1

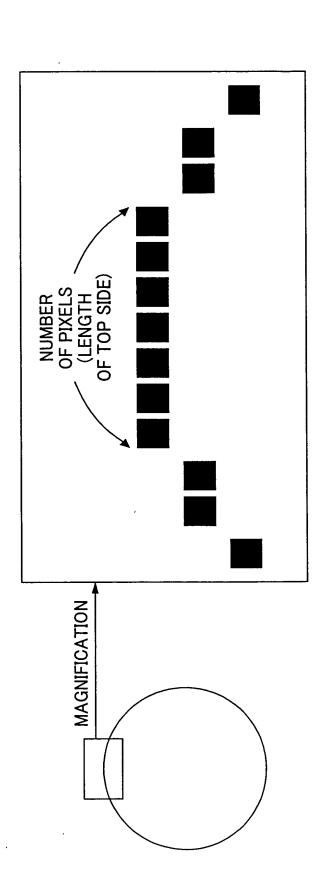
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FIG.2



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FIG.3

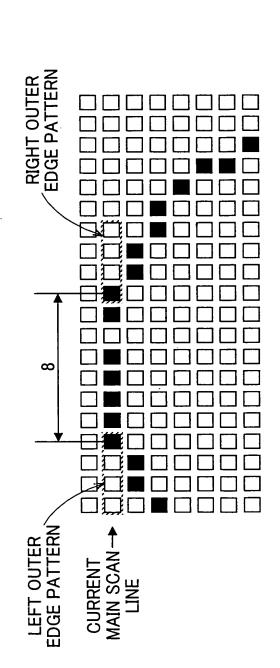


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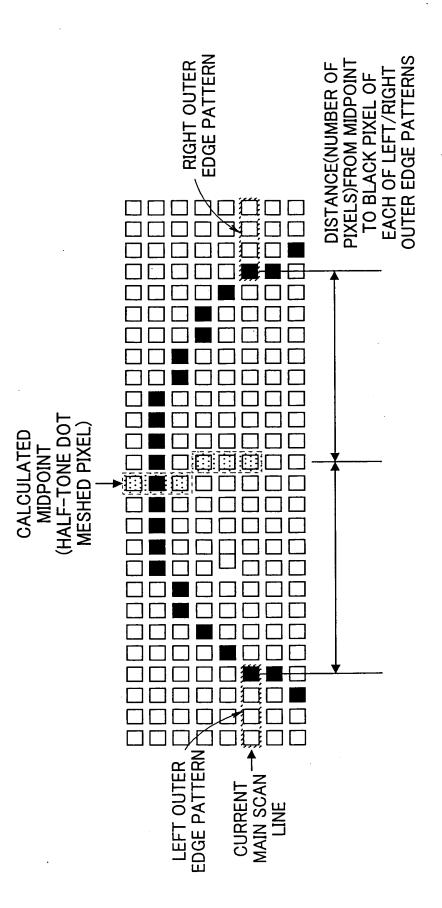
FIG.4 **START** SEARCH FOR 101ر BEGINNING **PATTERN** 102 NO REQUIREMENT SATISFIED? YES, **REGISTER AS** 103 CANDIDATE **SEARCH FOR** 104 **OUTER EDGE COUNT ERROR** ₁₀₅ 106 MORE THAN YES THRESHOLD? NO ↓ 107 SEMICIRCLE NO FOUND? 108 110 YES, NO **DETECTION DETECTION** NO END OF SEARCH 109JNPUT IMAGE YES **END**

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FIG.

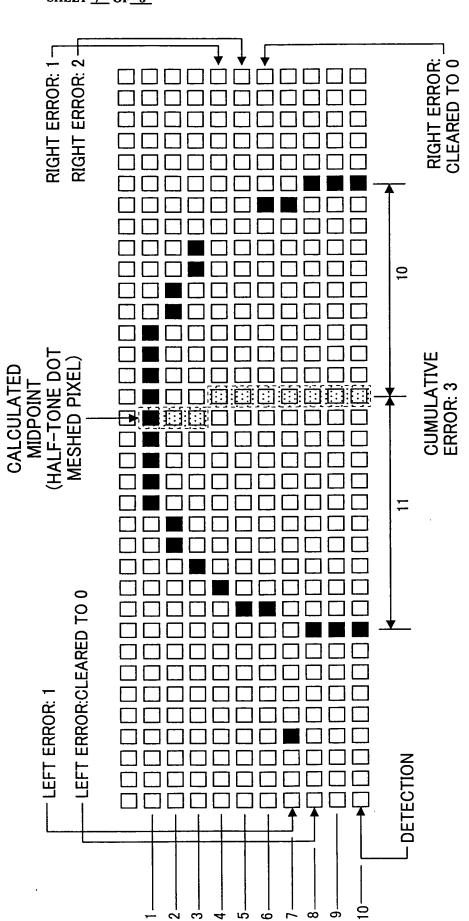


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FIG. 7



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